

Title (en)
HYDRAULIC TESTING METHOD AND DEVICE

Title (de)
HYDRAULISCHES TESTVERFAHREN UND VORRICHTUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF DE TEST HYDRAULIQUE

Publication
EP 3104158 B1 20191030 (EN)

Application
EP 14881914 A 20140204

Priority
JP 2014052575 W 20140204

Abstract (en)
[origin: EP3104158A1] Even if test pipes have a wide range of sizes, a water hydraulic test on each of the test pipes is conducted accurately, efficiently, and economically. Such an object is achieved by using a plurality of booster cylinders 41 arranged in parallel with respect to a test pipe and having respective boosting ratios increasing in stages. A plurality of servo motor driven pumps 51 arranged in parallel is used as a drive source for the plurality of booster cylinders 41. Before a water pressure on an output side of the booster cylinder 41 reaches a pressure near a test pressure, the plurality of servo motor driven pumps 51 operates simultaneously. Then, the plurality of servo motor driven pumps 51 stops operating except one and the water pressure on the output side of the booster cylinder 41 is increased to the test pressure by the one servo motor driven pump 51. During pressure increase, the plurality of booster cylinders 41 is used in turn in order of increasing boosting ratio.

IPC 8 full level
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G01N 2203/0003 (2013.01 - US); **G01N 2203/0048** (2013.01 - US); **G01N 2203/0208** (2013.01 - US); **G01N 2203/0274** (2013.01 - US)

Cited by
CN111413205A; CN111238919A; ES2683089A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
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JP 5783656 B1 20150924; JP WO2015118614 A1 20170323; KR 20160117538 A 20161010; RU 2649619 C1 20180404;
US 10234367 B2 20190319; US 2017167961 A1 20170615; WO 2015118614 A1 20150813

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